

OPEN FLOW TEST DATA

Date: June 28, 1962

Operator: E. L. Fundingsland
Sunoco Oil Co.

Lease: Sunoco #7

Location: Sec. 24, T. 25 N., R. 2 W

County: Bio Arriba State: N. M.

Formation: P C

Pool: Undesignated

Casing: 4 1/2 " Set @ 3565

Tubing: 1 " Set @ 3465

Pay Zone: 3474 To: 3484

Total Depth: -

Choke Size: 3/4 THX

Choke Constant = C = 12.365

Stimulation Method:

Flow Through: Casing x Tubing

Shut-in Pressure Casing: 782 psig / 12 = 794 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 782 psig / 12 = 794 psia

Flowing Pressure: P : 138 psig / 12 = 150 psia

Working Pressure: P_w : psig / 12 = psia

Temperature: T : 39 °F / 460 = 499 °Absolute

F_{pv} (from tables) : 1.016 Gravity .670 n : .85

Choke Volume = Q = C x P_c x F_t x F_g x F_{pv}

$$Q = 12.365 \times 150 \times 1.0208 \times .9837 \times 1.016 = 2026 \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

$$\left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^{.5} = \left[\frac{794^2 - 150^2}{794^2} \right]^{.5} = 1.0314$$

Aof =

2090 MCF/D

Tested By: D. W. Stiles

Witnessed By:

GeoElectric, Inc.

